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106.

United States Department of Agriculture,

OFFICE OF EXPERIMENT STATIONS.

CIRCULAR No. 23.

Key to Subject Index of Literature of Agricultural Experiment Stations and Kindred Institutions.

Published by Authority of the Secretary of Agriculture.

DECEMBER, 1893.

KEY TO SUBJECT INDEX OF AGRICULTURAL LITERATURE.

1. GENERAL SCIENCES

(Including only such general subjects as can not be conveniently indexed under the categories directly relating to agricultural and economic investigations.)

1. Physics
2. Chemistry
    1. Physical
    2. Inorganic
    3. Organic
    4. Physiological
    5. Technical
    6. Analytical
        1. Methods
        2. Analyses
3. Mineralogy. Geology
4. Botany
    1. Systematic
    2. Physiological
    3. Variations in plants
        1. Crossing (including hybridization)
        2. Acclimatization.
    4. Distribution of plants
5. Fermentation. Bacteriology
6. Animal physiology
7. Zoology
   (Including comparative anatomy and distribution of fauna)
8. Meteorology. Climatology

2. AIR AND WATER

1. Physics
2. Chemistry
3. Methods of investigation

3. SOILS

1. History and classification
2. Physics
3. Chemistry
4. Tillage
5. Reclamation and renovation
6. Methods of investigation

4. FERTILIZERS

1. History, nature, uses
2. Farm manures
   (Animal and green manures and composts)
3. Commercial fertilizers
4. Experiments
5. Inspection (laws, methods)
   (For action of fertilizers on soils, see Soils, physics and chemistry. For fertilizers for special crops see Field crops, manuring. For methods of analysis, see Chemistry, analytical)

5. PLANTS

1. Field crops
   (Cereals, textile crops, forage plants, potatoes, root crops, sugar beets, sugar cane, sorghum, tobacco, etc.)
    1. History and uses
    2. Species, varieties (including crosses and hybrids)
    3. Composition
    4. Culture (planting, cultivation, harvesting, etc.)
    5. Manuring (see also Fertilizers, experiments)
    6. Curing and storage
    7. Rotation
2. Horticulture
    1. Vegetables
    2. Orchard fruits
    3. Small fruits
    4. Grapes
    5. Nuts
    6. Ornamental horticulture
3. Forestry
4. Seeds
5. Weeds
6. Diseases of plants
    1. Parasitic
        1. Diseases due to vegetable organisms (fungi, bacteria, etc)--Economic mycology
        2. Diseases due to animal organisms
           (For diseases due to insects see Entomology)
    2. Non-parasitic
    3. Remedies—Fungicides, fungicide appliances, etc.

6. FOODS

(Including animal and vegetable substances used for food for domestic animals and man)

1. Composition and valuation

   2. Nutritive values
      (Including digestibility and potential energy)
   3. Preparation and use
   4. Food accessories, condiments
   5. Beverages
   6. Adulterations
   7. Preservation
      (For methods of analysis, see CHEMISTRY, analytical. For methods of feeding, see ANIMAL PRODUCTION. For functions in nutrition, see ANIMAL PHYSIOLOGY)

7. ANIMALS
   1. History and general principles
   2. Breeds and breeding
   3. Animal production
      1. Cattle raising
      2. Dairy farming
      3. Sheep husbandry
      4. Swine husbandry
      5. Horse and mule husbandry
      6. Aviculture
      7. Fish culture, oyster culture, etc.
   4. Diseases. Veterinary science

8. ENTOMOLOGY
   1. Beneficial insects
      1. Apiculture
      2. Sericulture
   2. Injurious insects
      1. Insects affecting animals
      2. Insects affecting plants
      3. Repression—Insecticides, insecticide appliances, etc
   3. Insect parasites and diseases

9. DAIRYING
   (Deals with milk after it is drawn from the animal. For feeding and care of animals, see ANIMAL PRODUCTION, dairy farming)
   1. History and general principles
   2. Composition and properties of milk and its products
   3. Changes in milk
      1. Fermentative changes (bacteria, etc.)
      2. Creaming of milk
   4. Handling of milk (milk supply)
   5. Inspection (laws, methods)
   6. Butter-making, creameries
   7. Cheese-making, cheese factories

10. TECHNOLOGY
   1. Milling
   2. Starch and sugars
   3. Liquors
   4. Fats, oils
   5. Dyes and tanning
   6. Textiles

11. AGRICULTURAL ENGINEERING
   1. Properties of materials
   2. Drainage
   3. Irrigation
   4. Farm implements
   5. Roads and bridges
   6. Fences
   7. Farm buildings

12. STATISTICS
   (Agricultural schools and stations)
   1. History and organization
   2. Legislation
   3. Equipment
      1. Apparatus
      2. Buildings
      3. Farms
      4. Implements
      5. Live stock
   4. Finances
   5. Bibliography

13. MISCELLANEOUS
   1. Rural economy
   2. Agricultural statistics

N. B.—The index is arranged on a decimal system, the number on the card before the decimal point representing one of the grand divisions of the index and the numbers after the decimal point representing subdivisions of the several grades. Thus on a card numbered 12.34; 12 = Statistics, .3 = Equipment, .04 = Implements. A card numbered 1.432 belongs under acclimatization (of plants); 1.22, chemistry of water; 9.32, creaming of milk.

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  - .06 Analytical
    - .001 Methods
    - .002 Analyses
- .3 Mineralogy. Geology
- .4 Botany
  - .01 Systematic
  - .02 Physiological
  - .03 Variations in plants
    - .001 Crossing (including hybridization)
    - .002 Acclimatization
  - .04 Distribution of plants
- .5 Fermentation. Bacteriology
- .6 Animal physiology
- .7 Zoology

  (Including comparative anatomy and distribution of fauna)
- .8 Meteorology. Climatology

2. AIR AND WATER

- .1 Physics
- .2 Chemistry
- .3 Methods of investigation

3. SOILS

- .1 History and classification
- .2 Physics
- .3 Chemistry
- .4 Tillage
- .5 Reclamation and renovation
- .6 Methods of investigation

4. FERTILIZERS

- .1 History, nature, uses
- .2 Farm manures

  (Animal and green manures, composts, etc.)
- .3 Commercial fertilizers
- .4 Experiments
- .5 Inspection (laws, methods)

  (For action of fertilizers on soils, see SOILS, physics and chemistry. For fertilizers for special crops, see FIELD CROPS, manuring. For methods of analysis, see CHEMISTRY, analytical)

5. PLANTS

- .1 Field crops

  (Cereals, textile crops, forage plants, potatoes, root crops, sugar beets, sugar cane, sorghum, tobacco, etc.)
  - .01 History and uses
  - .02 Species, varieties (including crosses and hybrids)
  - .03 Composition
  - .04 Culture (planting, cultivation, harvesting, etc.)
  - .05 Manuring (see also Fertilizers, experiments)
  - .06 Curing and storage
  - .07 Rotation
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  - .01 Vegetables
  - .02 Orchard fruits
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  - .04 Grapes
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- .7 Preservation
  (For methods of analysis, see CHEMISTRY, analytical. For methods of feeding, see ANIMAL PRODUCTION. For functions in nutrition, see ANIMAL PHYSIOLOGY)

7. ANIMALS

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  - .02 Dairy farming
  - .03 Sheep husbandry
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- .2 Drainage
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- .4 Farm implements
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(Agricultural schools and stations)

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